CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/CEMENT/2017-18 Date: 15.05.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
*** Name of Work**	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
*** Sample ID**	:	Cement
Sample Received on	:	12.05.2017
Period of Testing	:	12.05.2017 to 15.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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VIDYARANI P.K.
Technical Manager

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಡಾಪರಟ್ಟು ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/SAND-Gradation/2017-18 15.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
*** Name of Work**	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
*** Sample ID**	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	12.05.2017
Date of Testing	:	15.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.40	90-100	90-100	90-100	95-100
2.36	69.80	60-95	75-100	85-100	95-100
1.18	47.40	30-70	55-90	75-100	90-100
600 Micron	22.60	15-34	35-59	60-79	80-100
300 Micron	10.60	5-20	8-30	12-40	15-50
150 Micron	3.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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ಬಸವೇಶ್ವರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/AGG/GR/2017-18 15.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
*** Name of Work**	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	12.05.2017
Date of Testing	:	15.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.76	95-100	85-100
20	37.70	30-70	0-20
10	12.64	10-35	0-5
4.75	2.94	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Technical Manager

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಿಚ್ಮಂಡ್‌ಪ್ರಾಗ್, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/AGG/GR/2017-18 15.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
*** Name of Work**	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	12.05.2017
Date of Testing	:	15.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.02	95-100	85-100
10	32.06	25-55	0-20
4.75	2.82	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/NS/W.No.13/Steel/2017-18 17.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
* Name of work	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	17.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	556	13.5	O.K	O.K

*Information is furnished by the Customer/Representative.

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#23/14 7th Cross 3rd Stage 4th Block,
Shakth Ganapathinagar
Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/NS/W.No.13/Steel/2017-18 17.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
* Name of work	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	17.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	519	561	13.65	O.K	O.K

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Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/Cube/2017-18

26.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
* Name of the work	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
* Sample ID	:	Culvert Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.05.2017	26.06.2017	8.267	486.9	21.64
2	29.05.2017	26.06.2017	8.341	502.4	22.33
3	29.05.2017	26.06.2017	8.496	512.8	22.79

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Technical Manager

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T-2377

Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/Cube/2017-18 28.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
* Name of the work	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
* Sample ID	:	Culvert Vent Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	8.128	516.8	22.97
2	31.05.2017	28.06.2017	8.246	528.4	23.48
3	31.05.2017	28.06.2017	8.357	532.2	23.65

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Technical Manager

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Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/Cube/2017-18 29.06.20 7

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES.

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
* Name of the work	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
* Sample ID	:	Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2017	29.06.2017	8.163	489.5	21.76
2	01.06.2017	29.06.2017	8.249	496.8	22.08
3	01.06.2017	29.06.2017	8.341	506.7	22.52

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Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/Cube/2017-18 29.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES.

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
* Name of the work	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
* Sample ID	:	Culvert Deck Slab Concrete
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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2017	29.06.2017	8.098	490.8	21.81
2	01.06.2017	29.06.2017	8.163	516.8	22.97
3	01.06.2017	29.06.2017	8.247	487.9	21.68

*Information is furnished by the Customer/Representative.

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Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NS/W.No.13/CSR-05/334h/Cube/2017-18 29.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Shivananda,** No.35, 2nd cross, 1st A, main road, defiance colony, Bagalagunte, Bangalore.
* Name of the work	:	Repairs of culverts in Ward No.13, Shettyhalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/SSD/PR/69/2017-18 Dated: 12.05.2017
* Sample ID	:	Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2017	29.06.2017	8.294	515.8	22.92
2	01.06.2017	29.06.2017	8.345	519.8	23.10
3	01.06.2017	29.06.2017	8.482	509.3	22.64

*Information is furnished by the Customer/Representative.

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

AE-B

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